

# CGD SEMINAR



**DATE:** Tuesday, 2 May 2017

**TIME:** 11 a.m.

**LOCATION:** NCAR, 1850 Table Mesa Drive  
Mesa Lab, Main Seminar Room

**TITLE:** Impacts of climate change on building energy use

**SPEAKER:** Bas van Ruijven, NCAR/CGD

## ABSTRACT:

Climate change leads to changes in energy use, mostly through the demand for heating and cooling of buildings. The generic patterns are predictable and well known: demand for heating decreases while the demand for cooling increases. On the global level, these changes largely cancel out, and therefore the net impacts are small. On the regional level, however, changes can be large and vary widely between different studies. This talk explores the potential drivers of these regional differences: different climate models, variation in climate metrics, socioeconomic change and different impact models. Using data from hourly CESM runs, the CMIP5 archive, the Shared Socioeconomic Pathways, and three fundamentally different impact models we explore the impacts of climate change on building energy use in the USA and India.

**Live webcast:** <http://www.fin.ucar.edu/it/mms/ml-live.htm>

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